QP Code: NP-18658

,		(3 Hours)	[Total Marks: 86
N.	B.: (1) (2) (3)		
((b) What (c) Expl	lain friiss transmission formula. It are the energy signal and power signals Iain Ask system. Inpare pcm and Delta modulation.	20
. (lain the operating principle, working of transmitter and receiver	of 10
((b) An a	K system. Implitude modulated ware form has a form $t(t) = 10 (1 + 0.6 \cos 2000\pi t + 0.4 \cos 400\pi t) \cos 2000\pi t)$ Sketch the amplitude spectrum of Xc(t)	10
	(iii)	Find total power and sideband power.	currier.
		t is meant by sensitivity of a radio receiver and How it is improve the mathematical expression of FM signal.	ved. 10
. (and prove the sampling theorem for low pass and limited signating error.	l. Explain 10
(b) Expl	Explain the working of foster seeley discriminator with neat ckt diagram and pheasor diagram.	
. (a) Wha	t is meant by sensitivity of a radio receiver and How it is improve	zed. 10
(b) Wha	t are the advantages of QPSK system.	5
(c) Com	pare analog and digital communication system.	5
. (t are advantages and dis-advantages of digital comm ⁿ also draw bom and explain it.	olock diagram 10
(b) Expla	ain the following in relation of radio receiver	•
	(i)	Selectivity	
	(ii)	Sengitivity	
	(iii)	Double spotting.	